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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/940,569	08/28/2001	Shinichiro Tsuda	450100-03428	5051
75	90 08/14/2002			
WILLIAM S. FROMMER, Esq. c/o FROMMER LAWRENCE & HAUG LLP 745 Fifth Avenue			EXAMINER	
			WELLS, KENNETH B	
New York, NY	10151		ART UNIT	PAPER NUMBER
			2816	
			DATE MAILED: 08/14/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

			afr
•		Application No.	Applicant(s)
• •		09/940,569	TSUDA, SHINICHIRO
	Office Action Summary	Examiner	Art Unit
		Kenneth B. Wells	2816
Period fo	The MAILING DATE of this communication or Reply	appears on the cover sheet wi	th the correspondence address
THE - Exte after - If the - If NC - Failt - Any	ORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory pure to reply within the set or extended period for reply will, by streply received by the Office later than three months after the reply received by the Office later than three months after the red patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a ron. a reply within the statutory minimum of thirt eriod will apply and will expire SIX (6) MON statute, cause the application to become AB	eply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
1)⊠	Responsive to communication(s) filed on	28 August 2001 .	
2a) <u></u>	,	This action is non-final.	
3)□ Disposit	Since this application is in condition for al closed in accordance with the practice union of Claims		
4)🖂	Claim(s) 1-7 is/are pending in the applicat	tion.	
	4a) Of the above claim(s) is/are with	ndrawn from consideration.	
5)	Claim(s) is/are allowed.		
6)⊠	Claim(s) 1-7 is/are rejected.		
7)	Claim(s) is/are objected to.		
	Claim(s) are subject to restriction a	nd/or election requirement.	
9)⊠	The specification is objected to by the Exar	niner.	
10)🖂	The drawing(s) filed on <u>28 August 2001</u> is/a	are: a)∐ accepted or b)⊠ objec	ted to by the Examiner.
	Applicant may not request that any objection	to the drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).
11)	The proposed drawing correction filed on $_$	is: a)☐ approved b)☐ d	isapproved by the Examiner.
	If approved, corrected drawings are required	in reply to this Office action.	
12)	The oath or declaration is objected to by the	e Examiner.	
Priority ι	under 35 U.S.C. §§ 119 and 120		
13)⊠	Acknowledgment is made of a claim for for	reign priority under 35 U.S.C.	§ 119(a)-(d) or (f).
a)	☑ All b) ☐ Some * c) ☐ None of:		
	1. Certified copies of the priority docum	nents have been received.	
	2. Certified copies of the priority docum	nents have been received in A	pplication No
	3. Copies of the certified copies of the application from the International	l Bureau (PCT Rule 17.2(a)).	-
	See the attached detailed Office action for a	•	
	Acknowledgment is made of a claim for dom		
15) 🗌 /)		
Attachmen	• •		
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948 nation Disclosure Statement(s) (PTO-1449) Paper No) 5) Notice of I	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)

Application/Control Number: 09/940,569

Art Unit: 2816

1. The drawings are objected to because Fig. 1 needs a "prior art" label. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Page 2

2. The disclosure is objected to because of the following informalities: on page 2, line 22, "the" should be changed to --a--, and "The" should be changed to --A--. On page 3, line 5, --the-- should be inserted after "In". On page 11, line 2, the comma should be deleted. On page 21, line 1, "it is constructed lest...Fig. 9" is grammatically improper and makes no sense.

Appropriate correction is required.

3. Claims 1 and 7 are objected to because of the following informalities: in claim 1, line 3, "can be set" is improper because it is not a positive recitation of the invention, and should be changed to --is set--. In claim 7, line 2, "similar" is an indefinite term and should therefore be changed to the acceptable terminology "substantially the same". On line 9 of

Application/Control Number: 09/940,569 Page 3

Art Unit: 2816

claim 7, "multipliers" should be made singular. Appropriate correction is required.

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Sato.

Note Fig. 1, where the main filter is element 4; the external control signal is the output of comparator 3; the subordinate filter is element 1; the signal generator is the circuitry (not shown) which outputs the signal fsc; the phase difference detector is element 2; the reference signal generator is the Vref generator; and the error detector is comparator 3.

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been

Application/Control Number: 09/940,569 Page 4

Art Unit: 2816

obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made. Claims 2-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sato.

The various limitations recited in these claims, though not disclosed by Sato, would have been obvious to those having ordinary skill in the art who will easily recognize that the ideal phase difference of the two inputs applied to the phase difference detector element 2 is 900 or -900, that the filter 1 can be an active filter and that the phase difference detector can be constructed of a well-known multiplier circuit. The use of a compensating means having the details recited in claim 7 also would have been obvious since this is also an old and well-known device for correcting offset errors in a multiplier circuit, of which fact official notice is taken.

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth B. Wells whose telephone number is (703) 308-4809. The examiner can

Application/Control Number: 09/940,569 Page 5

Art Unit: 2816

normally be reached on Monday through Friday from 7:30am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan, can be reached on (703) 308-4876. The fax phone number for this Group is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

Kenneth B. Wells
Primary Examiner
Art Unit 2816

August 12, 2002